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SOLAR OBSERVATIONS

SOLAR AND SKY RADIATION MEASUREMENTS DURING FEBRUARY, 1927

By HERBERT H. KIMBALL, Solar Radiation Investigations

For a description of instruments and exposures and an account of the method of obtaining and reducing the measurements, the reader is referred to the REVIEW for January, 1924, 52:42, January, 1925, 53:29, and July, 1925, 53:318.

From Table 1 it is seen that solar radiation intensities averaged close to normal at Washington, D. C., and Lincoln, Nebr., and slightly below normal at Madison, Wis.

Table 2 shows a deficiency in the total solar radiation received on a horizontal surface from the sun and sky

at Washington and close to the normal amount at Madison and Lincoln. No record was obtained at Twin Falls during February, as the pyrliometer was undergoing repairs. The altitude of the pyrliometer at that station is reported by the official in charge to be about 1,200 meters instead of 1,300 as given in the January REVIEW.

No skylight-polarization observations were obtained at Madison, Wis., as the ground was covered with snow throughout the month. At Washington, measurements made on three days give a mean of 61 per cent with a maximum of 62 per cent on the 17th. These are close to average values for Washington in February.